

CLAIMS

1. A receiver/decoder comprising means for storing an application, means for running a stored application, and means for communicating over a network a debugging message to a remote workstation for use by the workstation in debugging the stored application.

2. A receiver/decoder according to Claim 1, wherein the means for communicating a debugging message is adapted to receive the debugging message from the network to control the execution of the application by the receiver/decoder in dependence on the message.

3. A receiver/decoder according to Claim 2, wherein the message includes an identifier of a remote host, and the means for communicating a debugging message is adapted to communicate a further debugging message with the remote host identified in the message.

4. A receiver/decoder according to any preceding claim, wherein the means for communicating the debugging message is adapted to transmit a debugging message containing information concerning execution of the application by the receiver/decoder.

5. A receiver/decoder according to any preceding claim, wherein the application comprises a plurality of files, the receiver/decoder comprising means for selectively reading at least one of the files from the remote workstation.

6. A receiver/decoder comprising means for running an application, the application comprising a plurality of files, and means for selectively reading at least one of the files from an external storage means.

7. A receiver/decoder according to Claim 6, wherein the external storage means is part of a remote workstation.

8. A receiver/decoder according to Claim 5 or Claim 7, wherein the receiver/decoder is adapted to read an individual file from the remote workstation.

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- 31 -

9. A receiver/decoder according to Claim 8, wherein the receiver/decoder is adapted to use as its network stack a simulated network stack on the remote workstation.

5 *Sub a3* 10. A receiver/decoder according to any of Claims 5 and 7 to 9, wherein the receiver/decoder is adapted to load a boot file from the remote workstation.

10 11. A receiver/decoder according to any of Claims 5 to 10, wherein the receiver/decoder is adapted to read said at least one file as it is required to run the application.

12. A receiver/decoder according to any of Claims 5 to 11, wherein the receiver/decoder is adapted to read updated files.

15 13. A workstation for debugging an application stored and running on a remote receiver/decoder, the workstation comprising means for communicating a debugging message with the receiver/decoder over a network.

20 14. A workstation according to Claim 13, comprising storage means for storing an application to be run on a receiver/decoder, the application comprising a plurality of files, and means for allowing access to at least one of the files by a receiver/decoder connected to the workstation by a network.

25 15. A workstation comprising storage means for storing an application to be run on a receiver/decoder, the application comprising a plurality of files, and means for allowing access to at least one of the files by a receiver/decoder connected to the workstation by a network.

30 *Sub a4* 16. A workstation according to Claim 14 or Claim 15, wherein the means for allowing access to said at least one file is adapted to allow an individual file to be read.

17. A workstation according to any of Claims 14 to 17, further comprising means for editing the application.

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- 32 -

18. An application development tool comprising a receiver/decoder according to any of Claims 1 to 12 and a workstation according to any of Claims 13 to 17.

5 19. An application development tool according to Claim 18 including a net proxy operative to implement communication between the receiver/decoder and the workstation.

10 20. An application development tool comprising a workstation for editing an application and a receiver/decoder for running the application, wherein the receiver/decoder has means for selectively reading at least a part of the application from the workstation and the workstation has means for communicating the or each part to the receiver/decoder.

15 21. An application development tool according to Claim 20, the workstation further comprising storage means for storing the application.

20 *Sub 22* 22. An application development tool according to Claim 20 or Claim 21, wherein the application comprises a plurality of files.

23. An application development tool according to Claim 22 wherein the receiver/decoder is adapted to read an individual file from the storage means.

25 *Sub 24* 24. An application development tool according to Claim 22 or Claim 23, wherein the receiver/decoder is adapted to read a file as it is required to run the application.

30 25. An application development tool according to any of Claims 22 to 24, wherein the workstation is adapted to update a file and the receiver/decoder is adapted to read said files once updated.

26. An application development tool according to any of Claims 22 to 25, wherein the receiver/decoder is adapted to read the most recent version of a file.

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- 33 -

27. An application development tool according to any of Claims 22 to 26, wherein the workstation is adapted to instruct the receiver/decoder to discard a file.

28. An application development environment comprising an application development tool according to Claim 26 or Claim 27 and a network over which the workstation and the receiver/decoder communicate.

29. A method of debugging an application stored and running on a receiver/decoder, the method comprising communicating from the receiver/decoder a debugging message over a network to a remote workstation for use by the workstation in debugging the stored application.

30. A method according to Claim 29, wherein a debugging message is received by the receiver/decoder over the network to control the execution of the application in dependence on the message.

31. A method according to Claim 30, wherein the message includes an identifier of a remote host, the method comprising communicating a further debugging message with the remote host identified in the message.

32. A method according to any of Claims 29 to 31, comprising transmitting from the receiver/decoder a debugging message containing information concerning execution of the application.

33. A method according to any of Claims 29 to 32, wherein the application comprises a plurality of files, the method comprising selectively reading at least one of the files from the remote workstation.

34. A method of transferring an application from a workstation for editing the application to a receiver/decoder for running the application, the application comprising a plurality of files, the method comprising transferring an individual file from the workstation to the receiver/decoder.

35. A method according to Claim 34, wherein a file is transferred when it

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is required to run the application.

36. A method according to Claim 34 or Claim 35, comprising updating a file and transferring the updated file to the receiver/decoder.

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37. A method of running an application on a receiver/decoder, the application comprising a plurality of files, the method comprising transferring a file to the receiver/decoder as it is required to run the application.

10 38. A method of running an application on a receiver/decoder, the application comprising a boot file and at least one further file, comprising:
transferring a boot file to the receiver/decoder;
executing the boot file in the receiver/decoder; and
transferring the at least one further file when it is required.

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39. A method according to Claim 38, wherein at least one of the boot file or the at least one further file is transferred over a network.

20 40. A method according to Claim 39 in which at least one of the boot file and the at least one other file is transferred from a network file store.

41. A computer readable medium having stored thereon a program for carrying out the method of any of Claims 29 to 40.

25 42. A computer program product comprising a program for carrying out the method of any of Claims 29 to 40.

43. A signal embodying a computer program for carrying out the method of any of Claims 29 to 40.

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44. A receiver/decoder substantially as herein described.

45. A workstation substantially as herein described.

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46. An application development tool substantially as herein described.
47. An application development environment substantially as herein described.
- 5 48. A method of debugging an application substantially as herein described.
49. A method of transferring an application from a workstation for editing the application to a receiver/decoder for running the application substantially as herein described.
- 10 50. A method of running an application on a receiver/decoder substantially as herein described.
- 15 51. A computer readable medium, a computer program product or a signal substantially as herein described.

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